

Article 34
Amendment

what Is A Claims
Patent claims

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Replacement Page

1. Speech processing system

- having several speech recognition modules (E_i , $i=1..n$) and/or
5 several speech output modules (A_j , $j=1..m$) that are respectively
constructed specifically for a particular type of speech
recognition and/or speech output, and

- having a means (MA) for selecting at least one speech
recognition module (E_i) and/or speech output module (A_j) for a
10 speech recognition and/or speech output to be carried out later,
dependent on an input signal (ES) with which it is described what
type of speech recognition and/or speech output is further
required.

15 2. Speech processing system according to claim 1,

in which the means (MA) for selecting the speech recognition
module (E_i) and/or the speech output module (A_j) is constructed
in such a way that the speech recognition module (E_i) and/or the
speech output module (A_j) is controlled by the means (MA).

20 3. Speech processing system according to claim 1 or 2,

in which parts of the speech recognition module (E_i) and/or of
the speech output module (A_j) that are used in common are
realized in at least one pre-processing module (VV) and/or in at
25 least one post-processing module.

4. Speech processing system according to claim 3,

in which several speech recognition modules (E_i) and/or speech
output modules (A_j) use common resources.

5. Speech processing system according to one of claims 1 to 4, in which a dialog sequence control (DA) is provided with which a dialog of the speech processing system with a user (B) of the speech processing system is realized.

6. Speech processing system according to one of claims 1 to 5, in which the input signal (ES) is produced by the dialog sequence control (DA).

7. Speech processing system according to one of claims 1 to 6,

- in which the speech recognition module (Ei) is constructed at least for the execution of one of the following types of speech recognition:

- Individual numeral recognition,
- Recognition of chains of numerals,
- Recognition of words from a limited vocabulary,
- Recognition of an individual word with an unlimited vocabulary,
- Recognition of speech spoken in a flowing manner with an unlimited vocabulary,
- Recognition of predetermined word combinations,
- Keyword recognition,
- Alphabet recognition,
- Sound sequence recognition,
- Speech recognition,
- DTMF recognition,

and/or

- in which the speech output module (Aj) is constructed at least for the execution of one of the following types of speech output:

- Output of predetermined stored speech stores,
- 5 -- Output of combined individual predetermined stored speech stores,
- Output of words synthesized from stored phonemes,
- Output of DTMF tones.

10 8. Method for speech processing,

- in which an input signal (ES) is analyzed (401), with which signal it is described what type of speech recognition and/or speech output is further required,

- in which, dependent on the input signal (ES), from a set of
15 several speech recognition modules (Ei, i = 1..n) and/or speech output modules (Aj, j = 1..m), specifically constructed respectively for a particular type of speech recognition and/or speech output, at least one speech recognition module (Ei) and/or at least one speech output module (Aj) is activated (402), and

20 - in which the respective type of speech recognition and/or speech output is executed with the selected speech recognition module and/or speech output module (403).

9. Method according to claim 8,

25 in which a pre-processing (VV) of the speech signal to be recognized takes place before the speech recognition.

10. Method according to claim 8 or 9,

in which after the speech recognition a post-processing of the recognized speech signal takes place.